MARINE CORPS

WARFIGHTING LABORATORY

Purpose: The purpose and intent of this effort is to determine if the TRAP has military applicability for Force Protection applications. The TRAP systems are currently used by police forces in various US municipalities. The advantage the TRAP provides for policemen is that this system can be setup and then remotely operated by a policeman out of sight and out of the line of fire of the aggressor. The question becomes; "Does such a capability evident in civilian police actions have military applications in a combat/battlefield arena?" Additional questions are; "What are the vulnerabilities of the TRAP in a Force Protection posture, i.e., is the TRAP vulnerable to enemy fire with the TRAP set up in a perimeter defense exposed to direct enemy fire?" "What is the extent of the training required to produce competent operators?" "What procedures and techniques are required to effectively emplace the TRAP ready to fire?" "How reliable and durable is the TRAP?" All of these questions will, in part, answer effectiveness and suitability issues necessary before decisions regarding transitioning, further development, and fielding can occur.

Background: The TRAP system came to the attention of MCWL via representatives from the producer of the systems, Precision Remotes, Inc. Richmond, CA. The representatives of this company briefed Bgen Catto, and Technology Branch personnel on the capabilities of their product. Additionally MCWL was informed that there existed an initiative in Congress for appropriating $1M for the specific purpose of funding an evaluation program. The evaluation was determined best conducted by the Marine Corps Warfighting Lab. Given the sophistication of the technology required for remotely fired weapons, MCWL determined that expertise resident in NSWC, Dahlgren was needed to effectively evaluate the capabilities of the TRAP

TELEPRESENT RAPID AIMING PLATFORM (TRAP)

fact sheet

Description: This is a tripod firing platform that serves as a mount for 5.56, 7.62, or .50 caliber rifles. The mounted weapon is controlled by the operator remotely. The tripod has electric servos able to traverse and elevate the weapon, as well as actuate the trigger. Two cameras, an observation/scan camera mounted on the tripod and an aiming camera mounted on the weapon and boresighted, enable the operator to observe a sector of fire for enemy activity and to aim the weapon on a target. The operator conducts all observation, manipulation of the weapon's attitude, and firing from a protected, remote location via a control box connected to the tripod using a single wire 20-foot long control cable.

Deliverable Products: A recommendation to MCCDC as to the applicability or non-applicability for military force protection mission

info:

Action Officer: Major John America, (703) 784-3425
Public Affairs Office: Mr. Nick Ritzcovan, (703) 784–5170
DTD: March 27, 2003

3255 MEYERS AVENUE
QUANTICO, VA 22134
WWW.MCWL.QUANTICO.USMC.MIL